

## II. CLAIM AMENDMENTS

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1. (Cancelled)

2. (Currently Amended) A system for matching an antenna for a wireless communication device, **characterized** in that it comprises:

detecting means to detect the matching of the antenna by measuring at the distance of the wireless communication device from objects in the vicinity of the wireless communication device at the time and means to generate a matching signal on the basis of the distance measurement,

control means to examine said matching signal, to determine the need for matching, and to generate a control signal on the basis of said matching signal, and

antenna matching means to adjust the matching of the antenna on the basis of said control signal.

3. (Cancelled)

4. (Cancelled)

5. (Currently Amended) A wireless communication device comprising at least an antenna, **characterized** in that the wireless communication device also comprises:

detecting means to detect the matching of the antenna by measuring at the distance of the wireless communication device from objects in the vicinity of the wireless communication device at the time and means to generate a matching signal on the basis of the distance measurement,

control means to examine said matching signal, to determine the need for matching, and to generate a control signal on the basis of said matching signal, and

antenna matching means to adjust the matching of the antenna on the basis of said control signal.

6. (Cancelled)

7. (Cancelled)

8. (Previously Presented) The wireless communication device according to claim 5, **characterized** in that said means to measure a distance comprise an infrared transmitter and an infrared receiver.

9. (Previously Presented) The wireless communication device according to claim 5, in which the antenna is arranged to be placed in at least two different positions, **characterized** in that said detecting means comprise means to examine the position of the antenna to generate said matching signal.

10. (Cancelled)

11. (Cancelled)

12. (Currently Amended) A method for matching the antenna of a wireless communication device, **characterized** in that in the method, the matching of the antenna is detected by measuring at the distance of the wireless communication device from objects in the vicinity of the wireless communication device at the time, a matching signal is generated on the basis of the detected matching, said matching signal is examined to determine the need for matching the antenna, wherein a control signal is generated on the basis of said matching signal, and the matching of the antenna is adjusted on the basis of said control signal.

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13 - 14 (Cancelled)

15. (Previously Presented) The method according to claim 12, in which the antenna can be placed in at least two different positions, **characterized** in that for generating said matching signal, the position of the antenna is examined.

16. (New) A system for matching an antenna for a wireless communication device, said system comprising:

antenna driving electronics,

detecting means to detect the matching of the antenna by measuring the distance of the wireless communication device from objects in the vicinity of the wireless communication device at the time and means to generate a matching signal on the basis of the distance measurement,

control means to examine said matching signal, to determine the need for matching, and to generate a control signal on the basis of said matching signal, and

antenna matching means coupled to said driving electronics to adjust the matching of the antenna on the basis of said control signal so that as much as possible of the power of the antenna driving electronics radiates from the antenna.

17. (New) A wireless communication device comprising at least an antenna, said wireless communication device comprising:

antenna driving electronics,

detecting means to detect the matching of the antenna by measuring the distance of the wireless communication device from objects in the vicinity of the wireless communication device at the time and means to generate a matching signal on the basis of the distance measurement,

control means to examine said matching signal, to determine the need for matching, and to generate a control signal on the basis of said matching signal, and

antenna matching means coupled to said driving electronics to adjust the matching of the antenna on the basis of said

control signal so that as much as possible of the power of the antenna driving electronics radiates from the antenna.

18. (New) The wireless communication device according to claim 17, wherein said means to measure a distance comprise an infrared transmitter and an infrared receiver.

19. (New) The wireless communication device according to claim 17, in which the antenna is arranged to be placed in at least two different positions, wherein said detecting means comprise means to examine the position of the antenna to generate said matching signal.

20. (New) A method for matching the antenna of a wireless communication device, wherein in the method, the matching of the antenna is detected by measuring the distance of the wireless communication device from objects in the vicinity of the wireless communication device at the time, a matching signal is generated on the basis of the detected matching, said matching signal is examined to determine the need for matching the antenna, wherein a control signal is generated on the basis of said matching signal, and the matching of the antenna is adjusted on the basis of said control signal so that as much as possible of the power of the antenna driving electronics radiates from the antenna.

21. (New) The method according to claim 20, in which the antenna can be placed in at least two different positions, wherein for generating said matching signal, the position of the antenna is examined.